



DATA SHEET

MMBD770W

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 70 Volts CURRENT 250mA

FEATURES

- Extremely low minority carrier lifetime
- · Low capacitance (0.4pF @ 20V typical)
- Low reverse leakage (30nA @ 35V typical)
- Surface mount package ideally suited for automatic insertion
- · Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

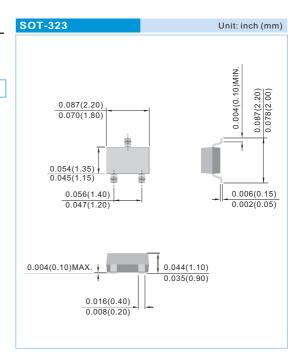
MECHANICAL DATA

Case: SOT-323, Plastic

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.0048 gram

Marking: 770



MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	VALUE		
Maximum Reverse Voltage	V_{R}	70	V	
Peak Reverse Voltage	V_{RRM}	70	V	
Continuous Forward Current	I _F	0.25	Α	
Power Dissipation ⁽¹⁾	P _{TOT}	180	mW	
Thermal Resistance , Junction to Ambient (1)	R _{OJA}	556	°C/W	
Junction Temperature	TJ	-50 to 125	οС	
Storage Temperature	T _{STG}	-50 to 150	°С	

Notes: 1. FR-5 Board = $1.0 \times 0.75 \times 0.062$ in.

ELECTRICAL CHARACTERISTICS (T_A=25^oC, unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage	$V_{(BR)}$	I _R =10uA	70	-	-	V
Reverse Current	I _R	V _F =35V	-	-	0.2	uA
Forward Voltage	V _F	I _F =1mA I _F =10mA	-	-	0.5 1.0	V
Total Capacitance	Ст	V _R =20V, f=1MHz	-	-	1.0	pF





CHARACTERISTIC CURVES

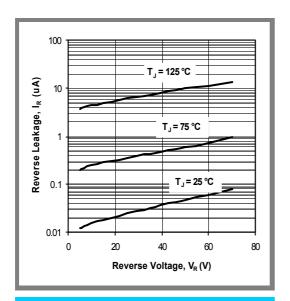


Fig. 1. Typical Reverse Leakage

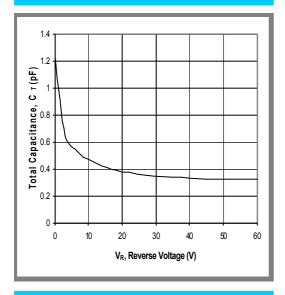


Fig. 3. Typical Total Capacitance

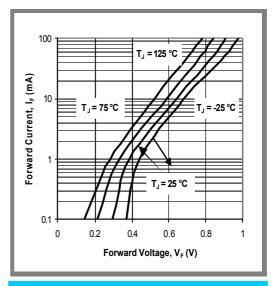
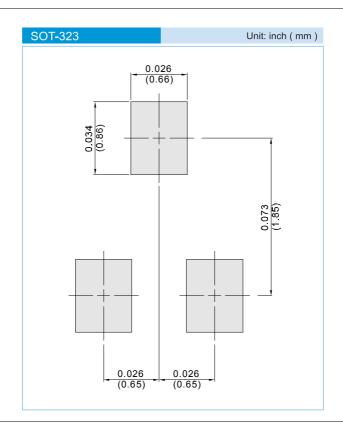


Fig. 2. Typical Forward Voltage





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





MMBD770W

Part No_packing code_Version

MMBD770W_R1_00001 MMBD770W_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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